

Vita

Name: Richard P. Sanders Ph.D, PG
Assistant Professor, Tenured
Geosciences Department
State University of West Georgia

Date and Place of Birth: March 18, 1943, Chicago, Illinois

Collegiate Education:

Ph. D. University of Illinois - Urbana, 1971
M. S. Northern Illinois University, 1968
B.S. Northern Illinois University, 1965

Teaching Experience:

1974 - Present Assistant Professor, Department of Geology, University of West Georgia
Carrollton, Georgia

1971 - 1974 Assistant Professor, Department of Geography and Geology
University of Wisconsin - Stevens Point
Stevens Point, Wisconsin

1967 - 1969 Graduate Teaching Assistant, Geology Department
University of Illinois - Urbana
Urbana, Illinois

1965 - 1967 Graduate Teaching Assistant, Geology Department,
Northern Illinois University
DeKalb, Illinois

Areas of Specialization:

Igneous Petrology
Metamorphic Petrology
Geochemistry
Environmental Geology
Application of ICP Technology in Geology
Computer Applications in Geology

Professional Memberships:

Alabama Licensed Professional Geologist - License # 0852
Geological Society of America
American Geophysical Union
Georgia Geological Society
Georgia Academy of Science
Georgia Conservancy
Sigma Xi

Publications, Abstracts, Papers Presented:

- Sanders, Richard and Julie Bartley; 2000; The Temporal Distribution of Metal Contaminants in Wetland Sediments of Buffalo Creek, Carroll County, Georgia (Abs.); in Geological Society of America, Abstracts with Programs; Vol. 32, No. 7, p. 161.
- Bartley, Julie K., Sanders, Richard P., Orr, Frank, Payne, Gregory, Tabit, Christopher; 2000; A Problem-Based Approach to Teaching Environmental Science at the Graduate and Undergraduate Level (Abs.); in Geological Society of America, Abstracts with Programs; Vol. 32, No. 7, p. 161.
- Bartley, Julie K., Coleman, Alvin, Burns, Amy, Sanders, Richard P.; 2000; Uptake of Heavy Metals by Plants in the Buffalo Creek Watershed, Carroll County Georgia (Abs.); in Geological Society of America, Abstracts with Programs; Vol. 32, No. 7, p. 118.
- Hudson, Mike; Sanders, Richard, and Payne, Greg; 1999; Metal Uptake by Aquatic Macroinvertebrates of Buffalo Creek, Georgia; abs.; National Meetings of the Entomological Society of America, Atlanta, Georgia
- Sanders, Richard and Julie Bartley; 1999; Three Dimensional Distribution of Metal Contaminants in Wetland Environments. An Example from Buffalo Creek, Carroll County, Georgia (Abs.); in Geological Society of America, Abstracts with Programs; Vol. 31, No. 7, p. A-34.
- Sanders, Richard; 1999; The Accumulation of Metals in Wetland Environments Along Buffalo Creek, Carroll Co., Georgia (Abs.); in Geological Society of America, Southeastern Section Abstracts with Programs; Vol. 31, No. 3, p. A-64.
- Bergstrom, Robert and Richard Sanders; 1999; The Accumulation of Cu, Zn, Ni, Pb, and Cd in Surface Sediments of Floodplains along Buffalo Creek, Carroll Co., Georgia (Abs.); Ga. Jour. Sci.; Vol. 57; No. 1, p. 57.
- Hinesley, Susan and Richard Sanders; 1999; The Distribution of Cu, Zn, Ni, Pb, and Cd in Vibracores Taken From Buffalo Swamp, Carroll Co., Georgia (Abs.); Ga. Jour. Sci.; Vol. 57; No. 1, p. 57.

- Ingle, Gerald and Richard Sanders; 1997; The accumulation of metals in the floodplain of Buffalo Creek, Carroll Co., Georgia (Abs.); Ga. Jour. Sci.; Vol. 55; No. 1, p. 78.
- Miles, Stephanie and Richard Sanders; 1995; The distribution of metals in stream sediments in West Georgia (Abs.); Ga. Jour. Sci.; Vol. 53; No. 1, p. 36.
- Chowns, Timothy M., Sanders, R. P., Connell, D. A., O'Connor, B. J., and Friddell, M. S.; 1993; Stratigraphy and Sedimentology of the Knox Group at Graysville Gap, Catoosa County, Georgia; in Cambro-Ordovician Strata in the Northwest Georgia and Southeast Tennessee; The Knox Group and Sequatchie Formation; Georgia Geological Society Guidebook, Vol. 12, No. 1, p. 5 - 38.
- Chowns, Timothy M., Sanders, R. P., O'Connor, B. J., Friddell, M. S., and Connell, D. A.; 1992; The Knox Group southeast of Graysville, Catoosa County, Georgia: a reference section; Georgia Journal of Science, Vol. 50, No. 1, p. 34.
- Sanders, Richard P.; 1990; Geochemistry of the Villa Rica trondhjemite gneiss, west Georgia Piedmont, (Abs.); in Geological Society of America, Southeastern Section Abstracts with Programs; Vol. 24, No. 4. An invited paper presented at the Southeastern Section Meeting, Geological Society of America; Tuscaloosa, Alabama.
- Warner, Steven J, Montgomery, Carla W., Sanders, Richard P.; 1987; Geochemistry of the Ropes Creek thrust sheet of west central Georgia, (Abs.); in Geological Society of America, Southeastern Section Abstracts with Programs; Vol. 19, No. 2, p. 135.
- Sanders, Richard P.; 1983; Major element chemistry of tonalitic and trondhjemitic rocks in the west Georgia Piedmont, (Abs.); in Geological Society of America, Southeastern Section Abstracts with Programs; Vol. 15, No. 2, p. 46. (Tallahassee)
- Sanders, Richard P.; 1981; Petrology of the Villa Rica Trondhjemitic Gneiss, Carroll and Douglas Counties, Georgia, (Abs.); in Geological Society of America, Southeastern Section Abstracts with Programs; Vol. 13, No. 1, p. 33.
- Sanders Richard P. and Morris, Lisa, 1981, A survey of low K₂O quartz-plagioclase gneisses from the Piedmont of west Georgia, (Abs.); Georgia Journal of Science, vol. 39, no. 2, p. 71.
- Sanders Richard P., 1979, Development of special cumulate textures at Pleasant Mountain, Maine; (Abs.); Georgia Journal of Science, vol. 37, no. 2, p. 89.
- Sanders, Richard P., Jeffers, William L., and Reid, James B., 1979, Petrology of elliptical calcareous pods in metagraywacke; Georgia Journal of Science, vol. 37, no. 2, p. 88.

Sanders, Richard P., 1977, Major element variation in several bodies of granite gneiss of the Piedmont of West Georgia; (Abs.); Georgia Journal of Science, Vol. 35, no. 2, p. 89.

Reviews of Papers:

Reviewed the Paper on "Emplacement Mechanisms of the Composite Bass Lake Tonalite" for the Geological Society of America.

Research Grants:

Distinguished Professor Award; 1999; with Julie Bartley, Frank Orr, Gregory Payne, and Christopher Tabit; Taking Science Outside: A model outdoor classroom integrating science education with geochemistry and ecology. \$70,000, funded for fiscal year 2000.

NSF; 1999; with Julie Bartley, Chris Tabbit, and Greg Payne. Investigating the Ecological Impact of Metal Contamination in a Freshwater Wetland: Buffalo Creek, Carroll Co, Georgia. \$279,606, not Funded

REU NSF; 1999; with Julie Bartley, Chris Tabbit, and Greg Payne. Investigating the Ecological Impact of Metal Contamination in a Freshwater Wetland: Buffalo Creek, Carroll Co, Georgia. \$850,000, not Funded

Georgia Water Resources Institute; 1998; with Julie Bartley. Investigation of wetlands contamination and evolution; Buffalo Creek, Carroll Co, Georgia. \$59,430, not Funded

REU NSF; 1998; with Julie Bartley. Investigation of wetlands contamination and evolution; Buffalo Creek, Carroll Co, Georgia. \$164,420, not Funded

1994, West Georgia College Faculty Research Grant; The distribution of heavy metals in stream sediments in west Georgia; \$1,233.00.

1993, 486 Computer, funded by Dean Miller, Arts and Sciences; \$4,188.00

1993, ICP Spectrophotometer, funded by Dean Miller, Arts and Sciences; \$67,816.00

1990, West Georgia College Faculty Research Grant; Chemical analyses of mineral phases in low potassium gneisses of west Georgia Piedmont; \$660.00.

1985, West Georgia College Faculty Research Grant; Trace and rare earth element geochemistry of low potassium gneisses in the piedmont of west Georgia ; \$1,320.00.

1979, West Georgia College Faculty Research Grant; Trace element composition of selected granites from the Piedmont of West Georgia; \$460.00.

1978, Montana Bureau of Mines; Radiometric dating of rocks from the stock at Goose Lake, Park County, Montana; (with Dr. William Size, Emory University; \$200.00.

1976, West Georgia College Faculty Research Grant; The petrology and major element composition of selected granites from the Piedmont of West Georgia; \$321.50.

Graduate Student Committees:

Master's Committees

1999, Mike Hudson, Master of Science Candidate, Dept. of Biology, State University of West Georgia.

1999, Josh McCandless Master of Education Candidate, Dept. of Secondary Education, State University of West Georgia.

1997, Amy Carleson, Master of Education Candidate, Dept. of Secondary Education, West Georgia College.

1996, Rhonda Kelly, Master of Education Candidate, Dept. of Secondary Education, West Georgia College.

1995, Arnett Johnson, Master of Education Candidate, Dept. of Secondary Education, West Georgia College.

1994, Annette White, Master of Education Candidate, Dept. of Secondary Education, West Georgia College.

1990, Ramona Luke, Master of Education Candidate, Dept. of Secondary Education, West Georgia College.

1989, Naila Khairallah, Master of Science Candidate, Geology Department, Emory University.

1986, Eric Pyle, Master of Science Candidate, Geology Department, Emory University.

1981, Lewis Dean, Master of Science Candidate, Geology Department, Emory University.

1980, Charlotte Abrams, Master of Science Candidate, Geology Department, University of Georgia, Field Defense Committee member.

Participation in Professional Meetings:

Geological Society of America, Annual Meeting, Reno, Nev., November 13 -16, 2000.

Workshop on Alpine Geology and Mountain Building Processes, Switzerland, July 21 - Aug. 13, 2000.

Georgia Geological Society Annual Meeting and Field Trip, Kaolin Mines, Sandersville, GA, Oct. 6 - 8, 2000.

Geological Society of America, Southeastern Section Annual Meeting, Charleston, S. Carol., March 23 - 24, 2000.

Geological Society of America, Annual Meeting, Denver, Colo., October 25 - 28, 1999.
Chair Geochemistry of Surfaces, Sediments, and Waters Technical Section.

Georgia Geological Society Annual Meeting and Field Trip, An introduction to Sequence Stratigraphy and The Geology of Civil War Battlefields, Chattanooga, Tenn., Oct. 8 - 10, 1999.

Georgia Academy of Sciences Annual Meeting, Georgia Perimeter College, Lawrenceville, Georgia, March 5 - 6, 1999.

Geological Society of America, Southeastern Section Annual Meeting, Athens, Georgia, March 25 - 26, 1999.

Perkin Elmer Atomic Spectroscopy Workshop, Diluth, Georgia, Oct. 2, 1998.

Georgia Geological Society Annual Meeting and Field Trip, Geology and Natural History of the Okefenokee Swamp and Trail Ridge, Oct. 9 - 11, 1998.

Georgia Academy of Sciences Annual Meeting, Armstrong Atlantic State University, Savannah, Georgia, April 24 - 25, 1998.

Geological Society of America, Southeastern Section Annual Meeting, Charleston, West Virginia, March 30 - 31, 1998.

Georgia Geological Society Annual Meeting and Field Trip, Geology of the Piedmont in the Vicinity of Athens and Eastern Metropolitan Atlanta Area, Oct. 10 - 12, 1997.

Georgia Academy of Sciences Annual Meeting, State University of West Georgia, Carrollton, Georgia, April 25 - 26, 1997.

Geological Society of America, Southeastern Section Annual Meeting, Auburn, Alabama, March 27 - 28, 1997.

Georgia Geological Society Annual Meeting and Field Trip, The Cartersville Fault Problem: Revisited, Nov. 15 - 17, 1996.

Georgia Academy of Sciences Annual Meeting, Albany State College, Albany, Georgia,
April 26 - 27, 1996.

Geological Society of America, Southeastern Section Annual Meeting, Jackson,
Mississippi, March 14 - 15, 1996.

Georgia Geological Society Annual Meeting and Field Trip, Carbonate Facies and
Paleogeography of the Dougherty Plain Region, Oct. 20 - 22, 1995.

Georgia Academy of Sciences Annual Meeting, Augusta College, Augusta, Georgia,
April 28 - 29, 1995.

Geological Society of America, Southeastern Section Annual Meeting, Knoxville,
Tennessee, April 6 - 7 1995.

Georgia Geological Society Annual Meeting and Field Trip, Environmental Geology and
Hydrogeology, Atlanta, Georgia, Oct. 7 - 9, 1994.

Georgia Academy of Sciences Annual Meeting, Kennesaw College, Kennesaw, Georgia,
April 29 - 30, 1994.

Georgia Geological Society Annual Meeting and Field Trip, Barrier Island Complexes
near St. Marys, St. Marys, Georgia, Nov. 19 - 21, 1993.

Georgia Academy of Sciences Annual Meeting, DeKalb College, Lawrenceville,
Georgia, April 30 - May 1, 1993.

Perkin-Elmer ICP Spectrophotometry workshop, Norcross, Georgia, Nov. 20, 1992.

Georgia Geological Society Annual Meeting and Field Trip, Cambro - Ordovician Strata
in Northwest Georgia and Southeast Tennessee, Dalton, Georgia, Oct. 9 - 11,
1992.

Georgia Academy of Sciences Annual Meeting, Georgia Southern University,
Statesboro, Georgia, May 1 - 2, 1992.

Geological Society of America, Southeastern Section Annual Meeting, Tallahassee,
Florida, April 1 - 2, 1993.

Microsoft Software Developer's Seminar, Atlanta, Georgia, April 21, 1992.

Geological Society of America, Southeastern Section Annual Meeting, Winston
Salem, North Carolina, March 19 - 20, 1992.

Geological Society of America Field Trip to the Grandfather Mountain Window, South
Carolina, March 18, 1992.

- Georgia Geological Society Annual Meeting and Field Trip, Inner Piedmont, Charlotte Belt, and Slate Belt, Athens, Georgia, Oct. 5 - 7, 1990.
- Georgia Academy of Sciences Annual Meeting, Mercer University, Macon, Georgia May 5 - 4, 1990.
- Georgia Geological Society Annual Meeting and Field Trip, Eastern Blue Ridge of Northeast Georgia and the Carolinas, Dillard, Georgia, Oct. 6 - 8, 1989.
- Geological Society of America, Southeastern Section Annual Meeting, Atlanta, Georgia, April 6 - 7, 1989.
- Georgia Geological Society Annual Meeting and Field Trip, Murphy Belt, Georgia and North Carolina, Ellijay, Georgia, Oct. 6 - 9, 1988.
- Geological Society of America, Southeastern Section Annual Meeting, Columbia, South Carolina, April 6 - 8, 1988.
- Georgia Geological Society Annual Meeting and Field Trip, Geology of the fall line, Columbus, Georgia, Oct. 9 - 11, 1987.
- Alabama Geological Society Annual Meeting and Field Trip, Granites of Alabama, Sylacauga, Alabama, Nov. 20 - 21, 1987.
- American Association of Petroleum Geologists Annual Meeting, Atlanta, Georgia, June 15 - 18 1986.
- Georgia Geological Society Annual Meeting and Field Trip, Dahlonega and Carroll Co. gold belts, Dahlonega, Georgia, Nov. 21 - 23, 1986.
- Georgia Academy of Sciences Annual Meeting, Georgia College, Milledgeville, Georgia, May 2 - 3 1986.
- Georgia Geological Society Annual Meeting and Field Trip, Coastal processes near Jekyll Island, Jekyll Island, Georgia, Dec. 6 - 8, 1985.
- Georgia Academy of Sciences Annual Meeting, West Georgia College, Carrollton, Georgia, April 26 - 27, 1985.
- Geological Society of America, Southeastern Section Annual Meeting, Knoxville, Tenn., March 20 - 22 1985.
- Georgia Geological Society Annual Meeting and Field Trip, Thrust stacks in Georgia and Alabama, Atlanta, Georgia, Oct. 12 - 13, 1994.
- Georgia Academy of Sciences Annual Meeting, Georgia Southern College, Statesboro, Georgia, May 4 - 5, 1984.

Georgia Geological Society Annual Meeting and Field Trip, Paleozoic rocks near Rome, Rome, Georgia, Sept. 30 - Oct. 2, 1983.

Georgia Academy of Sciences Annual Meeting, Kennesaw College, Marietta, Georgia, April 22 - 23, 1983.

Geological Society of America, Southeastern Section, Annual Meeting, Tallahassee, Florida, March 16 - 18, 1983.

Geological Society of America Annual Meeting, New Orleans, Louisiana, Oct. 18 - 21, 1982.

Georgia Geological Society Annual Meeting and Field Trip, Late Precambrian and early Paleozoic rocks near Cartersville, Cartersville, Georgia, Nov. 12 - 13, 1992.

Georgia Academy of Sciences Annual Meeting, Columbus College, Columbus Georgia, April 23 - 24, 1982.

Geological Society of America, Southeastern Section, Annual Meeting, Hattiesburg, Miss., March 18 - 20, 1981.

Georgia Academy of Sciences Annual Meeting, Georgia Institute of Technology, Atlanta, Georgia, April 24 - 25, 1981.

Geological Society of America Annual Meeting, Atlanta, Georgia, Nov. 17 - 20, 1980.

Georgia Geological Society Annual Meeting and Field Trip, Elberton Batholith, Athens, Georgia, Oct. 3 - 5, 1980.

Georgia Academy of Science Annual Meeting, Mercer University, Macon, Georgia, April 18 - 19, 1980.

Alabama Geological Society annual Meeting and Field Trip, Hillabee Greenstone, Sylacauga, Alabama, Nov. 16 - 17, 1979.

Georgia Geological Society Annual Meeting and Field Trip, Barnwell Group of Georgia, Milledgeville, Georgia, Oct. 5 - 6, 1979.

Georgia Academy of Science Annual Meeting, Augusta College, Augusta, Georgia, April 20 - 21, 1979.

Geological Society of America Annual Meeting, Toronto, Canada, Oct. 23 - 28, 1978.

Georgia Geological Society Annual Meeting and Field Trip, Murphy Syncline, Georgia and North Carolina, Blairsville, Georgia, Nov. 3 - 5, 1978.

Georgia Academy of Science Annual Meeting, Georgia College, Milledgeville, Georgia, April 28 - 29, 1978.

Geological Society of America, Southeastern Section, Annual Meeting, Chattanooga, Tennessee, April 6 - 7, 1978.

Georgia Geological Society Annual Meeting and Field Trip, Cambrian and Ordovician rocks of Bartow and Polk Counties, Cartersville, Georgia, Oct. 21 22, 1977.

Georgia Academy of Science Annual Meeting, Emory University, Atlanta, Georgia, April 29 - 30, 1977.

Georgia Geological Society Annual Meeting and Field Trip, Slate Belt along the Savannah River, Hickory Knob, South Carolina, Oct. 8 - 10, 1976.

Georgia Academy of Science Annual Meeting, Georgia Southwestern College, Americus, Georgia, April 30 - May 1, 1976.

Georgia Geological Society Annual Meeting and Field Trip, Blue Ridge tectonic history and the Lake Chatuge Sill, Clayton, Georgia, Oct. 25 - 27, 1974.

Geological Society of America Annual Meeting, Miami, Florida, Nov. 17 - 21, 1974.

Geological Society of America Annual Meeting, Dallas, Texas, Nov. 12 - 14, 1973.

Geological Society of America, North-Central Meeting, DeKalb, Illinois, May 10 - 14, 1972.

Geological Society of America Annual Meeting, Washington, D.C., Nov. 1 - 3, 1971.

American Geophysical Union Annual Meeting, Washington, D.C., April 13 - 17, 1970.

Supervision of Individualized Student Research Projects:

Susan Hinesley, Geol 4082, Summer, 1998, Cu, Zn, Pb, and Cd in the Floodplain Sediments of Buffalo Creek.

Robert Bergstrom, Geol 4082, Fall, 1998, The Distribution of Metals Across the Floodplain at Buffalo Creek Road, Carroll Co. Ga.

Gerald Ingle, Gly 405, Winter 1997, The Distribution of Heavy Metals in the Floodplain of Buffalo Creek.

Gerald Ingle, Gly 405, Summer, 1996, Heavy Metals in a Cross Section the Floodplain of Buffalo Creek.

Tracy Nichols, Gly 405, Fall 1995, ICP Chemical Data Processing Using Excell 5.0.

Tracy Nichols, Gly 405, Summer 1995, Alkali - Silica Reactivity in Concrete Aggregate. A supervised Internship Program with Mr. Mark Huffman, Georgia Department of Transportation

Joe Elkins, Gly 405, Summer 1995, Analysis of Heavy Metals in Stream Sediments Below Buffalo Swamp.

Stephanie Miles, Gly 405, Fall, 1994, Analysis of heavy metals in stream sediments.

Jeremy Armstrong, Gly 405, Spring, 1994, Analysis of heavy metals in stream sediments.

Cynthia Crews, Gly 405, Spring, 1994, Petrology of Pre-Corbin gneiss.

James Jones, Gly 405, Summer, 1993, Analytical methods for measuring Fe ratios in rocks.

Brian Shoemaker, Gly 405, Winter, 1991, Field mapping of rocks west of Villa Rica Georgia.

Matt Robinson, Gly 405, Fall, 1989, Carroll County sanitary landfill study, Georgia. In association with Lisa Hollingsworth, Chattahoochee - Flint Regional Development Agency.

John Achter, Gly 405, Summer, 1989, Climatic changes due to increased CO₂ Emissions.

John Achter, Gly 405, Summer, 1987, Petrology of Pre-Triassic mafic dikes in the Hogansville and Newnan Southeast quadrangles of Georgia.

James O'Connell, Gly 405, Summer, 1987, Thin section analysis of Pre-Triassic mafic dikes in the Hogansville area of Georgia.

Gregory Norrell, GLY 405, Summer, 1984, The petrology of the Mulberry Rock gneiss near New Georgia, Georgia.

Eirvin M. DeWitt, GLY 405, Spring, 1984, The distribution of flood plains in Carroll Co., Georgia.

Anne Marie Hjertstrom, GLY 405, Fall, 1984, Major element geochemistry of amphibolites from the west Georgia Piedmont.

Larry Jeffers, GLY 405, Spring, 1982, The petrology of the Corbin Gneiss.

Skip Sweat, GLY 405, Fall, 1982, A petrology data base written in COBOL.

Rick Rudolph, GLY 405, Fall, 1982, Structural geology of the area near Temple, Georgia.

Lee Pennington, GLY 405, Summer, 1981, Atomic absorption analyses of low potassium gneiss in the Winston Quadrangle, Georgia.

Chuck Danford, GLY 405, Summer, 1981, The petrology of low potassium gneiss in the Rico and Hulett Quadrangles, Georgia.

Donald L. Summers, GLY 405, Spring, 1981, The Ducktown, Tennessee ore deposits.

Roger White, GLY 405, Spring, 1981, Hazardous Waste Disposal.

Lisa Morris, Gly 405, Fall, 1980, Petrology and geochemistry of low K₂O gneisses in the western Piedmont of Georgia.

Eddie Harrison, GLY 405, Winter, 1980, Petrographic and x-ray analysis of selected mineralized rocks from the Florida Rock Industries quarry in Troup Co. Georgia.

Joel McDade, GLY 405, Winter, 1980, Petrology of the Villa Rica Gneiss.

David Nation, GLY 405, Winter, 1980, Trend surface analysis of oil well test data in the Coastal Plain of Georgia.

Eddie Harrison, GLY 405, Fall, Petrologic and geochemical investigation of the alteration of amphibolite xenoliths in granite at Tyrone, Georgia.

Henry Barker, GLY 405, Summer, 1979, Mineralogy and geochemistry of amphibolite and garnet-quartz gneisses in Carroll County, Georgia.

Larry Jeffers, GLY 405, Fall, 1978, Petrology and geochemistry of the Corbin Gneiss.

Steve Duncan, GLY 405, Spring, 1978, Flooding along Peachtree Creek.

Blanche Wallace, GLY 405, Winter, 1977, Petrology and geochemistry of a gabbroic pluton south of Cartersville, Ga.

Rick Rudolph, GLY 405, Winter, 1977, A study of chemical variation and isotope age relationships in granites of the Appalachian Mountains.

Yonnie Williams, GLY 405, Winter, 1977, Ultramafics of Carroll Co., Georgia.

Steve Duncan, GLY 405, Fall, 1976, Geologic and environmental feasibility of the Rocky Mountain pumped storage power station north of Rome, Georgia.

Lillian Harper, GLY 405, Winter, 1976, Studies in Mineralogy.

Larry Carter, GLY 405, Winter, 1976, Earth resistivity measurements for the advanced detection of sinkhole collapse. A supervised internship program with Dr. Barry Beck, Georgia Geological Survey.

Stanley Bearden, Gly 405, Fall, 1975, Chemical Relationships in the Palmetto, Austell, and Sand Hill granites of western Georgia.

John Faulkner, GLY 405, Spring 1975, Thin section analysis of granitic rock from west Georgia.

University Service:

Web Page administrator for the UWG Geology Department, 1997 - 2000
Also administering pages for the Georgia Geological Society, the Alabama Geological Society, the Atlanta Geological Society Minigrant Program, the Birmingham Paleontological Society.

Arts and Sciences Promotion and Tenure Committee, 1997 - 2000

Chairman, Faculty Search for Clay Mineralogist/ Tectonics Specialist/ Crystalline Rock Geologist , 1998 - 1999

Institutional Studies and Planning Committee, 1997 - 1998

Chairman, Post Tenure Review Committee, 1997

Chairman, Faculty Search for GIS Specialist, 1996 - 1997

Chairman, Faculty Search for Structural Geologist, 1994 - 1995

Faculty Senate, 1992 - 1995

Undergraduate Academic Programs Committee 1992 - 1995.
Chairman 1994 - 1995.

Executive Committee, Dean of Arts and Sciences, 1992 - 1994.

Chairman, Sigma Xi Student Paper Presentations, 1994.

Faculty Senate, 1987 - 1990.

Student Activities Committee 1987 - 1990.
Chairman 1988 - 1989.
Chairman Budget Subcommittee, 1988 - 1989.

Promotion and Tenure Committee, 1988 - 1989.

Dean's Evaluation Committee, Arts and Sciences, 1987.

Executive Committee, Dean of Arts and Sciences, 1985 - 1987.

Promotion and Tenure Committee, 1981 - 1983.

Learning Resources Committee, 1981 - 1983.

Academic Policies and Procedures Committee, 1980 - 1982.

Academic Programs Committee, 1978 - 1981.

Academic Programs Committee, Subcommittee on Degree Requirements, 1979.

Advisory Committee, Dean of Arts and Sciences, 1977 - 1979.

Environmental Studies Coordinating Committee, 1976 - 1977.

Professional Offices Held:

Geological Society of America

UWG Campus Liaison Representative 1979 - present.

Co-chairman, Hospitality Committee for the Annual Meeting in Atlanta, 1980.

Georgia Geological Society

Councilor, 1985 - 1986.

Transportation Coordinator for the Annual Field Trip, 1985.

President, 1984 - 1985.

Chairman, Nominations Committee, 1979.

Secretary, 1978 - 1979.

Secretary, 1977 - 1978

Auditing Committee, 1976.

Georgia Academy of Science

Chairman, Earth Sciences Division, 1976 - 1977.

West Georgia College Geology Club, 1974 - present.

Faculty advisor, 1975 - present.

West Georgia College Student Environmental Awareness Association, 1989 - 1992.

Faculty advisor, 1988 - 1992.

Talks and Presentations given to Civic and School Groups:

Fossils and Fossilization; a demonstration for advanced grade school children for Susan Mills, July 19, 1994

The Causes of Damage in Earthquakes; a presentation to the Carrollton Rotary Club, July 26, 1994.

Cultural Bias in Earthquakes: Why We are Lucky and India is not; an invited presentation for the West Georgia College Arts and Sciences Symposium, 1993.

Earthquake prediction; a presentation to the Bremen Rotary Club, 1986.

The eruption of Mt. St. Helens; a presentation to the student assembly at Emanule Jr. College, Feb. 5, 1983.

The Eruption of Mt. St. Helens; a presentation to the West Georgia College Presidential Scholars, Jan. 16, 1981.

The Eruption of Mt. St. Helens; a presentation to the Carrollton Rotary Club, Jan. 27, 1981.

The Eruption of Mt. St. Helens; a presentation to the Carrollton Lions Club, Nov. 13, 1980.

Volcanism and its Environmental Impact; an invited lecture presented to the Georgia Junior Academy of Science, Shorter College, Oct. 11, 1980.

The Eruption of Mt. St. Helens; a presentation to the Carrollton Kiawanis Club, 1980.

Petroleum Resources; a lecture presented to the ENV Workshop for in service teachers taught by Dr. Carl Quertermus at West Georgia College, 1980.

Three Mile Island and the Future of Nuclear Energy; presented to the Bowdon Lions Club, 1979.

The Three Mile Island Incident: a discussion for Roberts Hall Residents, 1979.

Nuclear Resources and the Future of Nuclear Energy; a presentation to the Carrollton Optimist Club, 1978.

Careers in the Environmental Sciences; presented at the Rotary Club Career Day, Carrollton High School, 1978.

U. S. Petroleum Production and the Energy Crisis; a presentation to the Bremen Lions Club, 1977.

Energy Resources and the Energy Crisis; a presentation for the West Georgia College Earth Science Day, 1976.

Educational Services:

Member of the team that taught Techniques in Environmental Studies (GEOL 4985). An experimental class using "problem based learning". Spring Semester, 1999

Assisted Dr David Bush on the 1999 summer field trip (GEOL 4074) to Puerto Rico, May 17, to June 8, 1999

Led a Geology Club field trip to Ocoee Gorge, Tennessee, July 23, 1994

Judge, West Georgia College Sigma Xi Student Paper Presentations, 1994.

Led a Geology Club field trip to the Sandersville Kaolin mines, Georgia, March 21 - 22 1994.

Member, Selection Committee for the Outstanding Earth Science Teacher, 1990.

Judge, West Georgia College Sigma Xi Student Paper Presentations, 1993.

Led, with Tim Chowns, a Geology Club field trip to Providence Canyon, Feb. 21, 1987.

Judge, West Georgia College Science Olympiad, 1986 (87?).

Judge, Georgia State Science Fair, Athens, Georgia, 1980.

Judge, Georgia State Science Fair, Athens, Georgia, 1975.

Awards and Honors:

Distinguished Professor Award; 1999; with Julie Bartley, Frank Orr, Gregory Payne, and Christopher Tabit; Taking Science Outside: A model outdoor classroom integrating science education with geochemistry and ecology.

Chair, Environmental Geoscience I: Geochemistry of Surfaces, Sediments, and Waters Technical Section, Geological Society of America – Annual Meeting, Denver, Col., 1999

Chair, Igneous Petrology Technical Section, Geological Society of America - Southeastern Section, Tuscaloosa, Ala., 1990

Chair, Geology Technical Section, Georgia Academy of Sciences, Atlanta, Ga., 1977.

Merit Award, granted by the Geography and Geology Department, University of Wisconsin-Stevens Point for teacher excellence and university service, 1973.

Teacher of the Year nominee; nominated by the University of Wisconsin-Stevens Point Student Senate, 1972.

National Defense and Education Fellowship, 1969 - 1970.